

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 1-51 (Canceled)

1 52. (New) A method for operating a hybrid cache in a warm-up phase,
2 comprising:

3 receiving a plurality of content digests from associated hybrid caches,
4 wherein a given content digest specifies which data objects are stored at a given
5 associated hybrid cache, and wherein each associated hybrid cache supplies a
6 content digest;

7 receiving a request for a data object;

8 searching the plurality of content digests to determine if an associated
9 hybrid cache is storing the data object; and if so,

10 retrieving the data object from the associated hybrid cache,
11 and

12 serving the data object.

1 53. (New) The method of claim 52, wherein if the data object is not stored
2 in any associated hybrid cache, the method further comprises:

3 retrieving the data object from an origin server; and
4 serving the data object.

1 54. (New) The method of claim 53, wherein after the data object is served,
2 the method further comprises:

3 determining if the data object is a primary data object; and if so
4 caching the data object.

1 55. (New) The method of claim 54, wherein if the data object is a
2 secondary data object the method further comprises:

3 determining if the data object satisfies a set of dynamic criteria; and if so
4 caching the data object.

1 56. (New) The method of claim 55, wherein the set of dynamic criteria
2 includes a popularity of the data object.

1 57. (New) The method of claim 55, wherein the set of dynamic criteria
2 includes a utilization of the hybrid cache.

1 58. (New) The method of claim 55, wherein the set of dynamic criteria
2 includes a size of the data object.

1 59. (New) The method of claim 55, wherein the set of dynamic criteria
2 includes validity of the data object.

1 60. (New) The method of claim 55, wherein the set of dynamic criteria
2 includes age of the data object.

1 61. (New) The method of claim 55, wherein the set of dynamic criteria
2 includes ownership of the data object.

1 62. (New) The method of claim 55, wherein the set of dynamic criteria
2 includes a cost of retrieving the data object from one of the origin server and an
3 associated cache.

1 63. (New) The method of claim 55, wherein the set of dynamic criteria
2 includes a level of storage input/output activity at the hybrid cache.

1 64. (New) The method of claim 55, wherein the set of dynamic criteria
2 includes a level of communication activity at the hybrid cache.

1 65. (New) A computer-readable storage medium storing instructions that
2 when executed by a computer cause the computer to perform a method for
3 operating a hybrid cache in a warm-up phase, the method comprising:

4 receiving a plurality of content digests from associated hybrid caches,
5 wherein a given content digest specifies which data objects are stored at a given
6 associated hybrid cache, and wherein each associated hybrid cache supplies a
7 content digest;

8 receiving a request for a data object;

9 searching the plurality of content digests to determine if an associated
10 hybrid cache is storing the data object; and if so,

11 retrieving the data object from the associated hybrid cache,

12 and

13 serving the data object.

1 66. (New) The computer-readable storage medium of claim 65, wherein if
2 the data object is not stored in any associated hybrid cache, the method further
3 comprises:

4 retrieving the data object from an origin server; and

5 serving the data object.

1 67. (New) The computer-readable storage medium of claim 66, wherein
2 after the data object is served, the method further comprises:
3 determining if the data object is a primary data object; and if so
4 caching the data object.

1 68. (New) The computer-readable storage medium of claim 67, wherein if
2 the data object is a secondary data object the method further comprises:
3 determining if the data object satisfies a set of dynamic criteria; and if so
4 caching the data object.

1 69. (New) The computer-readable storage medium of claim 68, wherein
2 the set of dynamic criteria includes a popularity of the data object.

1 70. (New) The computer-readable storage medium of claim 68, wherein
2 the set of dynamic criteria includes a utilization of the hybrid cache.

1 71. (New) The computer-readable storage medium of claim 68, wherein
2 the set of dynamic criteria includes a size of the data object.

1 72. (New) The computer-readable storage medium of claim 68, wherein
2 the set of dynamic criteria includes validity of the data object.

1 73. (New) The computer-readable storage medium of claim 68, wherein
2 the set of dynamic criteria includes age of the data object.

1 74. (New) The computer-readable storage medium of claim 68, wherein
2 the set of dynamic criteria includes ownership of the data object.

1 75. (New) The computer-readable storage medium of claim 68, wherein
2 the set of dynamic criteria includes a cost of retrieving the data object from one of
3 the origin server and an associated cache.

1 76. (New) The computer-readable storage medium of claim 68, wherein
2 the set of dynamic criteria includes a level of storage input/output activity at the
3 hybrid cache.

1 77. (New) The computer-readable storage medium of claim 68, wherein
2 the set of dynamic criteria includes a level of communication activity at the hybrid
3 cache.

1 78. (New) An apparatus for operating a hybrid cache in a warm-up phase,
2 comprising:

3 a receiving mechanism configured to receive a plurality of content digests
4 from associated hybrid caches, wherein a given content digest specifies which
5 data objects are stored at a given associated hybrid cache, and wherein each
6 associated hybrid cache supplies a content digest;

7 wherein the receiving mechanism is further configured to receive a request
8 for a data object;

9 a searching mechanism configured to search the plurality of content
10 digests to determine if an associated hybrid cache is storing the data object;

11 a retrieving mechanism configured to retrieve the data object from the
12 associated hybrid cache; and

13 a serving mechanism configured to serve the data object.

1 79. (New) The apparatus of claim 78, wherein the retrieving mechanism is
2 further configured to retrieve the data object from an origin server

1 80. (New) The apparatus of claim 79, further comprising:
2 a determining mechanism configured to determine if the data object is a
3 primary data object; and
4 a caching mechanism configured to cache the data object.

1 81. (New) The apparatus of claim 80, wherein the determining mechanism
2 is further configured to determine if the data object satisfies a set of dynamic
3 criteria.

1 82. (New) The apparatus of claim 81, wherein the set of dynamic criteria
2 includes a popularity of the data object.

1 83. (New) The apparatus of claim 81, wherein the set of dynamic criteria
2 includes a utilization of the hybrid cache.

1 84. (New) The apparatus of claim 81, wherein the set of dynamic criteria
2 includes a size of the data object.

1 85. (New) The apparatus of claim 81, wherein the set of dynamic criteria
2 includes validity of the data object.

1 86. (New) The apparatus of claim 81, wherein the set of dynamic criteria
2 includes age of the data object.

1 87. (New) The apparatus of claim 81, wherein the set of dynamic criteria
2 includes ownership of the data object.

1 88. (New) The apparatus of claim 81, wherein the set of dynamic criteria
2 includes a cost of retrieving the data object from one of an origin server and an
3 associated cache.

1 89. (New) The apparatus of claim 81, wherein the set of dynamic criteria
2 includes a level of storage input/output activity at the hybrid cache.

1 90. (New) The apparatus of claim 81, wherein the set of dynamic criteria
2 includes a level of communication activity at the hybrid cache.